



012004

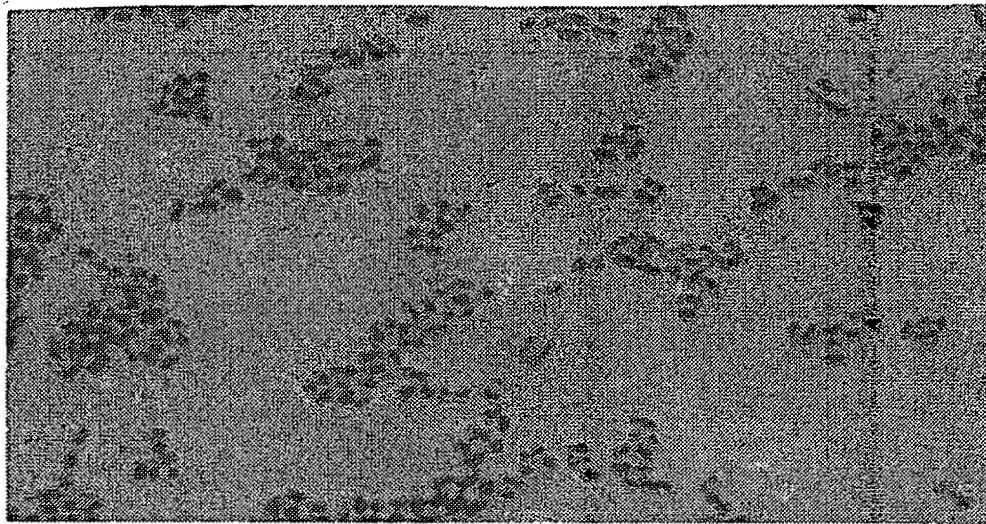
16523 U.S. PTO

App No.: 09/696,929

Docket No.: 524412000400

Inventor: Lee A. BULLA, Jr., et al.

Title: MICROBE, MICROBIAL EXOPOLYSACCHARIDE AND USES  
THEREOF



**Figure 1**



012004

16523 U.S. PTO

App No.: 09/696,929

Docket No.: 524412000400

Inventor: Lee A. BULLA, Jr., et al.

Title: MICROBE, MICROBIAL EXOPOLYSACCHARIDE AND USES THEREOF

Figure 2

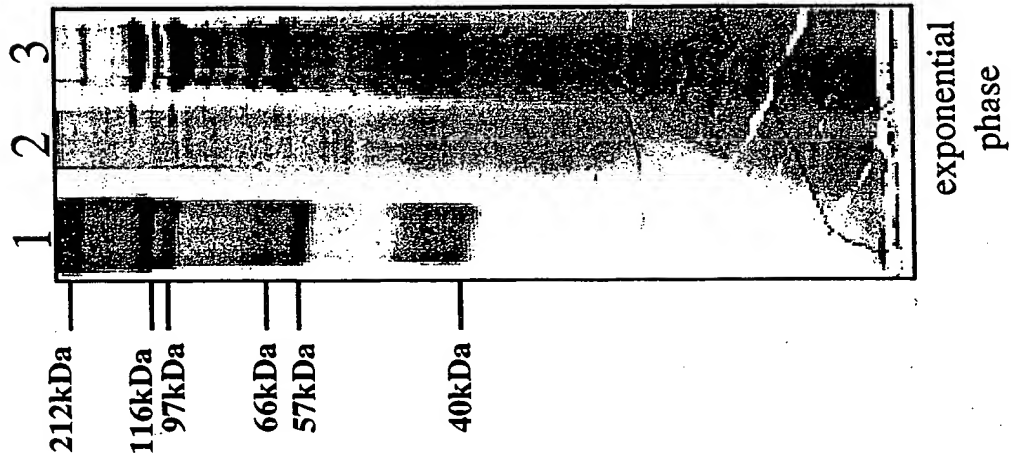
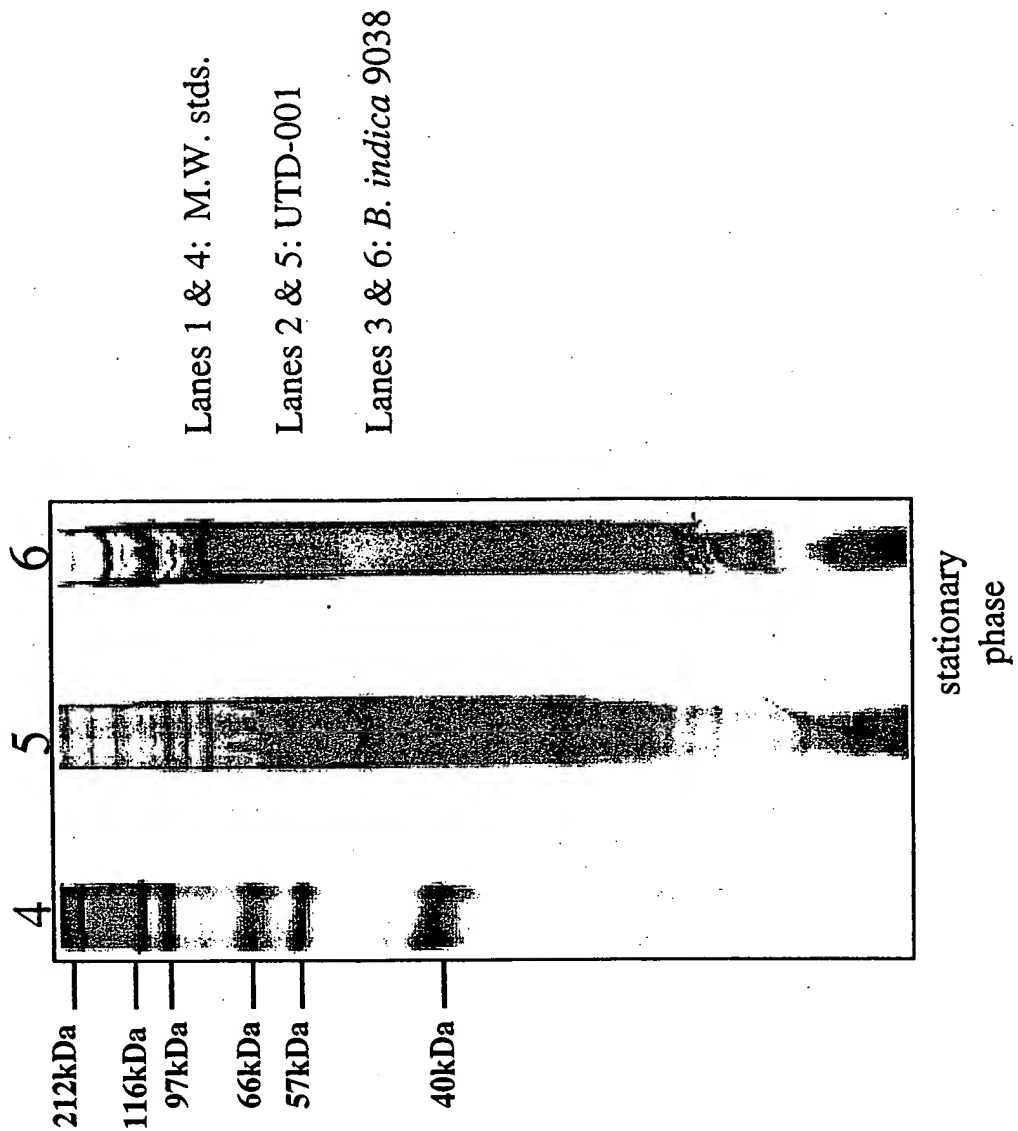


Figure 3





App No.: 09/696,929

Docket No.: 524412000400

Inventor: Lee A. BULLA, Jr., et al.

Title: MICROBE, MICROBIAL EXOPOLYSACCHARIDE AND USES THEREOF

RT	Area	Ar/HT	Respn	ECL	Name	%	Comment 1	Comment 2
1.681	412383000	0.030	*****	7.006	SOLVENT PEAK	****	< min rt	
1.794	16776	0.024	*****	7.227	*****	****	< min rt	
2.241	750	0.044	*****	8.104	*****	****	< min rt	
2.300	1326	0.044	*****	8.104	*****	****	< min rt	
2.347	504	0.032	*****	8.219	*****	****	< min rt	
3.849	1128	0.028	1.102	8.312	Sum In Feature 3	0.15	ECL deviates 0.002	12:0 ALDE?
4.833	25458	0.031	1.052	10.916	12:0	3.34	ECL deviates - 0.000	Reference - 0.004
5.989	4578	0.038	1.015	12.000	13:0	0.58	ECL deviates 0.000	Reference - 0.003
7.102	1032	0.043	*****	13.000	*****	****		
7.296	4584	0.050	0.986	13.813	unknown 13.961	0.56	ECL deviates - 0.007	
7.358	4584	0.039	0.985	13.813	14:0	6.74	ECL deviates - 0.001	Reference - 0.004
8.080	54882	0.040	0.974	13.954	Sum In Feature 2	0.50	ECL deviates - 0.001	13:0 30H/15:1 i l/H
8.130	41344284	0.039	0.973	13.999	unknown 14.503	0.52	ECL deviates - 0.002	
8.576	810	0.038	0.967	14.469	15:1 w8c	0.10	ECL deviates - 0.001	
8.897	32478	0.041	0.963	14.501	15:0	3.90	ECL deviates - 0.000	Reference - 0.004
9.189	1974	0.043	*****	14.791	*****	****		
9.704	58386	0.044	0.955	15.000	Sum In Feature 3	6.95	ECL deviates - 0.003	16:1 ISO 1/14:0 30H
10.259	183384	0.044	0.950	15.176	Sum In Feature 4	21.7	ECL deviates - 0.002	16:1 w7c/15 iso 20H
10.407	1512	0.043	0.948	15.908	15:1 w5c	8.18	ECL deviates - 0.000	
10.562	212406	0.044	0.947	16.002	16:0	25.0	ECL deviates - 0.002	Reference - 0.002
10.715	1074	0.064	*****	16.091	*****	****		

FIG. 4A



App No.: 09/696,929

Docket No.: 524412000400

Inventor: Lee A. BULLA, Jr., et al.

Title: MICROBE, MICROBIAL EXOPOLYSACCHARIDE AND USES THEREOF

RT	Area	Ar/HT	Respn	ECL	Name	%	Comment 1	Comment 2
11.425	1188	0.041	0.941	16.502	15:0 30H	0.14	ECL deviates - 0.002	
11.924	3132	0.051	0.938	16.792	17:1 w8c	0.37	ECL deviates - 0.000	
12.091	87876	0.048	0.937	16.889	17:) CYCLO	10.2	ECL deviates - 0.001	Reference - 0.003
12.282	14676	0.046	0.936	17.000	17:0	1.71	ECL deviates - 0.000	Reference - 0.004
13.598	996	0.050	*****	17.750	*****	****		
13.725	146304	0.048	0.929	17.822	Sum In Feature 7	16.9	ECL deviates - 0.000	18:1 w7c/w9t/w12t
14.032	1122	0.044	0.928	17.997	18:0	0.13	ECL deviates - 0.003	Reference - 0.007
14.797	1242	0.057	*****	18.437	*****	****		
14.986	822	0.053	*****	18.546	*****	****		
15.605	1446	0.048	0.923	18.901	19:0 CLYCL w8c	0.17	ECL deviates - 0.001	Reference - 0.003
15.888	480	0.045	*****	19.065	*****	****		
19.033	690	0.042	*****	20.888	*****	****	> max rt	
19.715	90	0.033	*****	21.284	*****	****	> max rt	
*****	4134	*****	*****	*****	SUMMED FEATURE 2	0.50	15:1 ISO H/13:0 30H	13:0 30H/15:1 i i/H
*****	*****	*****	*****	*****	*****	****	15:1 ISO I/13:0 30H	
*****	59514	*****	*****	*****	SUMMED FEATURE 3	7.10	12:0 ALDE ?	unknown 10.928
*****	*****	*****	*****	*****	*****	****	16:1 ISO I/14:0 30H	14:0 30H/16:1 ISO I
*****	183384	*****	*****	*****	SUMMED FEATURE 4	21.7	16:1 w7c/15 iso 20H	15:0 ISO 20H/16:1w7c
*****	146304	*****	*****	*****	SUMMED FEATURE 7	16.9	18:1 w7c/w9t/w12t	18: w9c/w12t/w7c
*****	*****	*****	*****	*****	*****	****	18:1 w12t/w9t/w7c	

FIG. 4B



App No.: 09/696,929

Docket No.: 524412000400

Inventor: Lee A. BULLA, Jr., et al.

Title: MICROBE, MICROBIAL EXOPOLYSACCHARIDE AND USES THEREOF

Solvent Ar	Total Area	Named Area	% Named	Total Amount	Nbr	ECL Deviation	Ref ECL Shift
41238300	851388	843768	99.10	802384	9	0.002	0.004
TSBA (Rev.3.90) K.luyvera .....							
					0.835		
					0.835		
					0.528		
					0.753		
					0.753		
					0.510		
					0.397(excludes ATCC 35549 which is atypical		
					0.521		
					0.521		
					0.521		
					0.421		
					0.275		
					0.267		
					0.267		
					0.182		

FIG. 4C

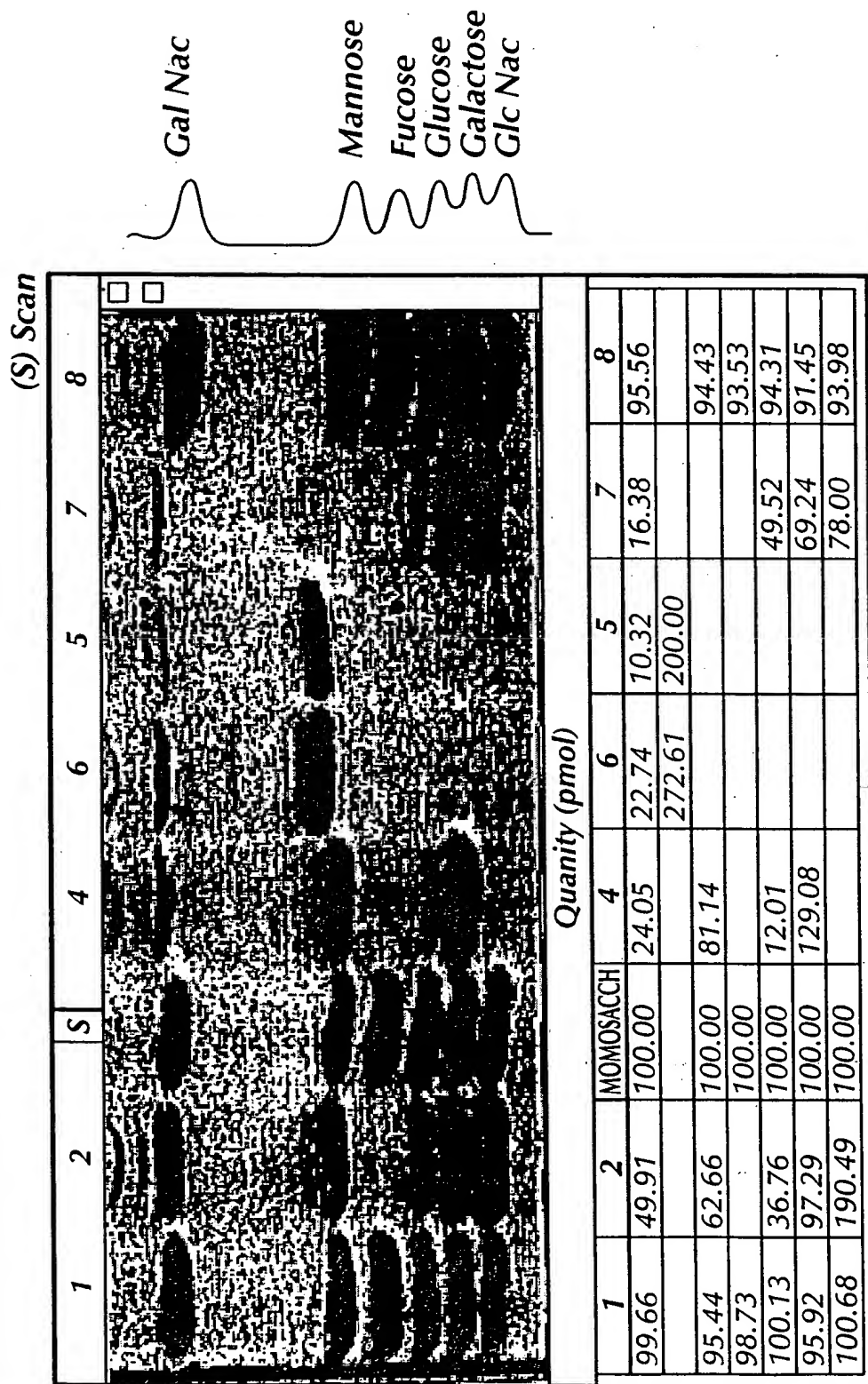


FIG. 5



App No.: 09/696,929

Docket No.: 524412000400

Inventor: Lee A. BULLA, Jr., et al.

Title: MICROBE, MICROBIAL EXOSOLYSACCHARIDE AND USES THEREOF

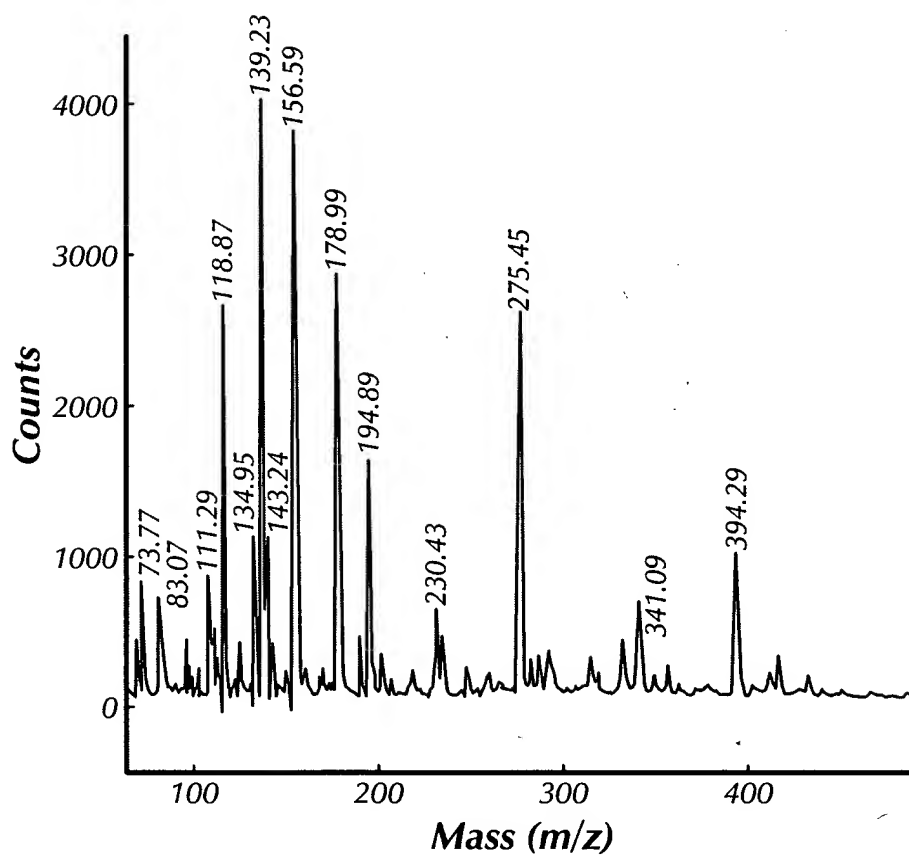


FIG. 6A



App No.: 09/696,929      Docket No.: 524412000400  
Inventor: Lee A. BULLA, Jr., et al.  
Title: MICROBE, MICROBIAL EXOPOLYSACCHARIDE AND USES  
THEREOF

Method: LDE 1000      Laser: 2070  
Mode: Linear      Pressure: 2.81c-07  
Accelerating Voltage: 25000      Low Mass Gate: 500.0  
Grid Voltage: 92.000%      Timed Ion Selector: 938.0 OFF  
Guide Wire Voltage: 0.100%      Negative Ions: OFF  
Delay: 100 ON      Collected: 8/24/98 2:21 PM

Sample: 68  
Savitsky-Golay Order =  
2 Points = 19

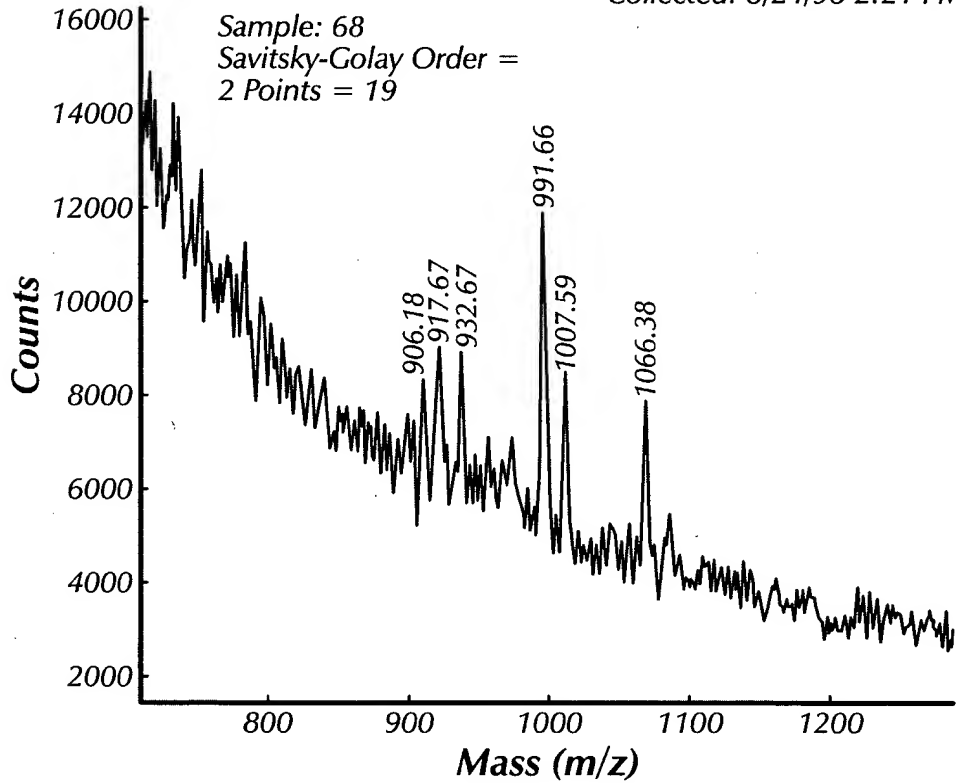


FIG. 6B





App No.: 09/696,929

Docket No.: 524412000400

Inventor: Lee A. BULLA, Jr., et al.

Title: MICROBE, MICROBIAL EXOPOLYSACCHARIDE AND USES THEREOF

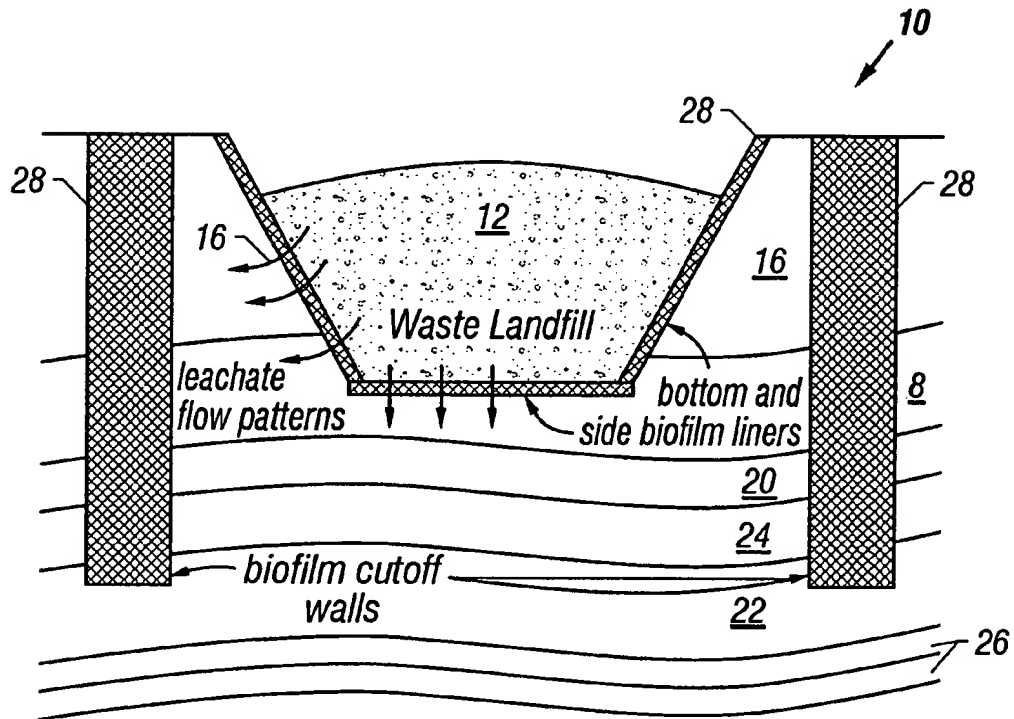


FIG. 7

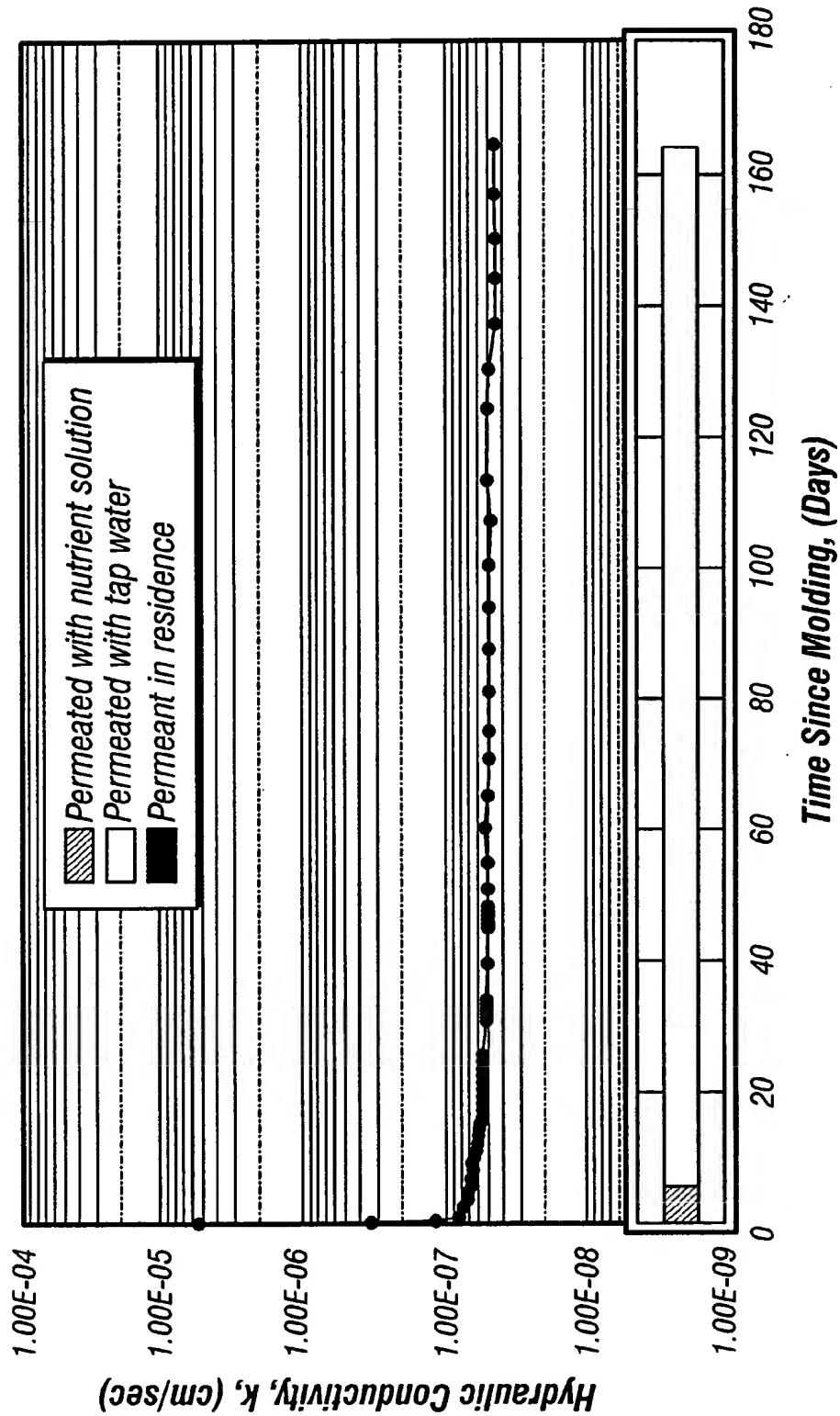


FIG. 8